

ABSTRACT OF THE DISCLOSURE

Provided is an actuator manufactured using a material obtained by mixing a film material featuring stable motion and high speed of response and used for ion conductive polymer actuators with conductive fine particles. According to the present invention, an actuator which is light in weight, produces low operating noise, and can be used safely and stably, and at the same time, produces expansion/contraction motion, and has speed of response comparable to that of a natural muscle can be obtained.